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Applicant : GEIST, Jon Appl. No. : 10/081,963 Filed : 02/21/2002

Method for TMAH etching of CMOS integrated circuits

Art Unit : 1765

Examiner : DuyVun Deo

Honorable Commissioner of Patents Washington DC 20231

AMENDMENT A (corrected)

Sir:

In response to the Office Action of 2004 JULY 01, please amend the above identified application as follows:

In the Claims:

Cancel claims 1-9 and substitute new claims 10-16 as follows:

- 10. A method for preparing an etchant comprising a solution of tetramethylammonium hydroxide and water, wherein
 - A liquid source of silicate ions is mixed with said solution, and
 - An oxidizer is added to said etchant at a time later than 10 minutes following immersion of a sample comprised of silicon in said etchant.
- 11. The method of claim 10, wherein said oxidizer is ammonium peroxydisulfate.
- 12. The method of claim 10, wherein said oxidizer is obtained from a liquid source of oxidizer.
- 13. The method of claim 12, wherein said liquid source of oxidizer is a solution of ammonium peroxydisulfate in water.
- 14. The method of claim 10, wherein a quantity of tetramethylammonium hydroxide is added to said etchant at a time later than ten minutes following immersion of said sample in said etchant.
- 15. The method of claim 14, wherein said quantity of tetramethylammonium hydroxide is sufficient to maintain the pH of said etchant substantially above the threshold for silicate precipitation.
- 16. The method of claim 10, wherein said liquid source of dissolved silicate ions is a colloidal suspension of silicon dioxide.

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